

Recovery Plan Action Status

Plan Name: Recovery Plan for the Mariana Islands Population of the Vanikoro Swiftlet (*Aerodramus vanikorensis bartschi*)

Plan Status: Final

Plan Date: 30-Sep-91

Lead Agency: USFWS

Lead Office: Pacific Islands Fish And Wildlife Office

(408)

(792-9400)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Mariana gray swiftlet (<i>Aerodramus vanikorensis bartschi</i>)	1	111	Secure known swiftlet caves: Mahlac Cave	Complete	Prior to FY 1995	FY 2009	U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, United States Navy	Acquisition: Management Agreement, Management: Land Use	Internal Administrative	This cave is protected and managed by the U.S. Navy.
Mariana gray swiftlet (<i>Aerodramus vanikorensis bartschi</i>)	1	112	Secure known swiftlet caves: CNMI Caves on Aguijan and Saipan	Partially Complete			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Management Agreement	Internal Administrative	Some of the caves on Saipan are managed by DFW.
Mariana gray swiftlet (<i>Aerodramus vanikorensis bartschi</i>)	1	113	Secure known swiftlet caves: Vampire Bat Cave	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Management Agreement	Internal Administrative	
Mariana gray swiftlet (<i>Aerodramus vanikorensis bartschi</i>)	1	114	Secure known swiftlet caves: Takpochao Cave	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Management Agreement	Internal Administrative	
Mariana gray swiftlet (<i>Aerodramus vanikorensis bartschi</i>)	1	115	Secure known swiftlet caves: Hour Glass Cave	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Management Agreement	Internal Administrative	

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Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	116	Secure known swiftlet caves: Tin Can Cave	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Management Agreement	Internal Administrative	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	117	Secure known swiftlet caves: Celis Cave	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Management Agreement	Internal Administrative	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12111	Regulate entry to caves: Mahlac Cave	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, United States Navy	Management: Other, Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12112	Regulate entry to caves: Vampire Bat Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12113	Regulate entry to caves: Guano Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12114	Regulate entry to caves: Pillar Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12115	Regulate entry to caves: Cliff Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12116	Regulate entry to caves: Landing Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12117	Regulate entry to caves: Black Noddy Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	

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Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12118	Regulate entry to caves: Takpochao Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12119	Regulate entry to caves: Hour Glass Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12120	Regulate entry to caves: Tin Can Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12121	Regulate entry to caves: Navy Hill Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	12122	Regulate entry to caves: Celis Cave	Not Started			Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Other	Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	1221	Inhibit access of brown tree snake: Mahlac Cave	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, United States Navy	Management: Predator and Competitor Control	Contract, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	21	Conduct surveys for additional colonies and caves	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Population Surveys	Internal Field Assistance	Additional surveys are needed on Saipan and in northern Guam.

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Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	22	Secure newly identified colonies and caves	Partially Complete			U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Acquisition: Management Agreement, Management: Other	Internal Administrative, Internal Field Assistance	An additional colony was established in southern Guam and secured and managed by the U.S. Navy. Additional work on cave surveys is needed before this task can be completed.
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	1	23	Manage new caves and colonies	Partially Complete			Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: General, Management: Habitat Maintenance and Manipulation, Management: Planning, Management: Predator and Competitor Control	Internal Administrative, Internal Field Assistance	The Navy is managing the relatively recently re-colonized cave on their lands.
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	3111	Determine reproductive rate	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Demographic Studies	Contract, Internal Field Assistance	Work has been completed but results have not been reported.
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	3112	Determine recruitment rate	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Demographic Studies	Contract, Graduate Student, Internal Field Assistance	

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Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	312	Study movements among caves and islands	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Migration	Contract, Graduate Student, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	313	Study habitat requirements	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Habitat Requirements	Contract, Graduate Student, Internal Field Assistance	Additional work on foraging habitat is needed.
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	314	Study foraging requirements	Partially Complete	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Other Information	Contract, Graduate Student, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	321	Investigate suspected limiting factors: Predation by brown tree snake	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, United States Navy	Research: Predation	Contract, Graduate Student, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	322	Investigate suspected limiting factors: Effects of pesticides	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Environmental Contaminants	Contract, Graduate Student, Internal Field Assistance	Some initial work was completed by Grue in 1985 on Guam. Additional sampling on Rota, Aguiguan, and Saipan is needed to complete work.

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Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	323	Investigate suspected limiting factors: Susceptibility to avian disease	Not Started			Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands, U.S. Geological Survey, Biological Resources Division	Research: Disease	Contract, Graduate Student, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	324	Investigate suspected limiting factors: Effects of disturbance to swiftlets at caves	Partially Complete	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Other Information	Contract, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	41	Determine likelihood of natural recolonization	Complete	Prior to FY 1995	FY 2007	U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Other Information	Internal Field Assistance	Swiftlets naturally recolonized Maamong cave on Guam around 1999. This colony steadily increased through 2007 and still persists.
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	2	42	Increase reproductive success	Partially Complete	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Management Techniques	Contract, Graduate Student, Internal Field Assistance	Cockroach control is ongoing on Saipan and snake control is ongoing on Guam. These activities appear to be increasing breeding success as populations on both islands are increasing. Expanded management on Saipan is needed.

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Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	3	431	Determine feasibility of reintroduction	Ongoing Not Current	FY 2005		U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Planning, Management: Reintroduction	Contract, Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	3	432	Implement reintroduction program	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	3	433	Construct artificial caves	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Management: Habitat Maintenance and Manipulation	Contract, Graduate Student, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	3	61	Conduct up to 12 censuses per year at selected caves	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Population Surveys	Contract, Internal Field Assistance	
Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	3	62	Conduct annual census of key caves	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Population Surveys	Contract, Internal Field Assistance	

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Mariana gray swiftlet (Aerodramus vanikorensis bartschi)	3	63	Conduct complete census at least every 5 years	Ongoing Not Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Division of Fish and Wildlife, Commonwealth of the Northern Mariana Islands	Research: Population Surveys	Contract, Internal Field Assistance	Not all caves surveyed on Saipan and Aguiguan surveys are sporadic.